[redacted] C A/B, IV, 108, 1

[redacted]

[redacted] has devoted most of his life to the study of curare alkaloids. He has spent a number of years in the [redacted] region of [redacted] where he studied native uses of curare and learned native methods of purifying the crude material. In this country he developed a method of obtaining pure d-tubocurarine chloride from the crude material. He has set up the [redacted] in order to mfg. d-tubocurarine chloride. He controls all steps in the mfg. of the product. Most of his product is sold to pharm. houses, and he apparently makes the highest grade of purified curare alkaloid produced in this country. C

At the present time the company has four full-time employees plus a variable number of part-time student employees. The average monthly output of d-tubocurarine chloride is 3.5 kilograms.

Research proposals for medical applications:

1) Long-acting curare preparation for self-admin.
2) Curare preparation for field nerve gas protection

[redacted] mentioned these men as being acquainted with his work and the general field: (a) [redacted] C

Ideas on covert use: a. partially purified curare is used successfully by [redacted] Am natives to kill game and enemies.

b. Very finely divided crude curare (preferably of the strychnos type) plus a nasal irritant had an almost paralyzing effect when released as an aerosol or powder. c. The crude material contains toxiferene compounds which are extremely toxic. However, developing toxiferene compounds for covert use would be comparatively difficult because of the time and work it would take to extract identify, and test individual toxiferene compounds. d. Partially purified crude curare would be easy to obtain & have possibilities for covert uses. It is more potent than pure d-tubocurarine chloride. It has both the d-tubocurarine chloride properties and what are usually considered undesirable side effects for curare used in medicine. These additional effects involve histamine-like reactions. This material plus a nasal irritant should have an immediate powerful effect in small amounts, when released as an aerosol or powder. If would be very effective if introduced within the body by a dart, etc. It has little or no effect if it gets into a small break in the skin or if taken orally.

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